

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P299995

Luminaire Tested: **GLNA-AF-05-LED-E1-SL3-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194479)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-05-LED-E1-SL3-7030-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22332 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

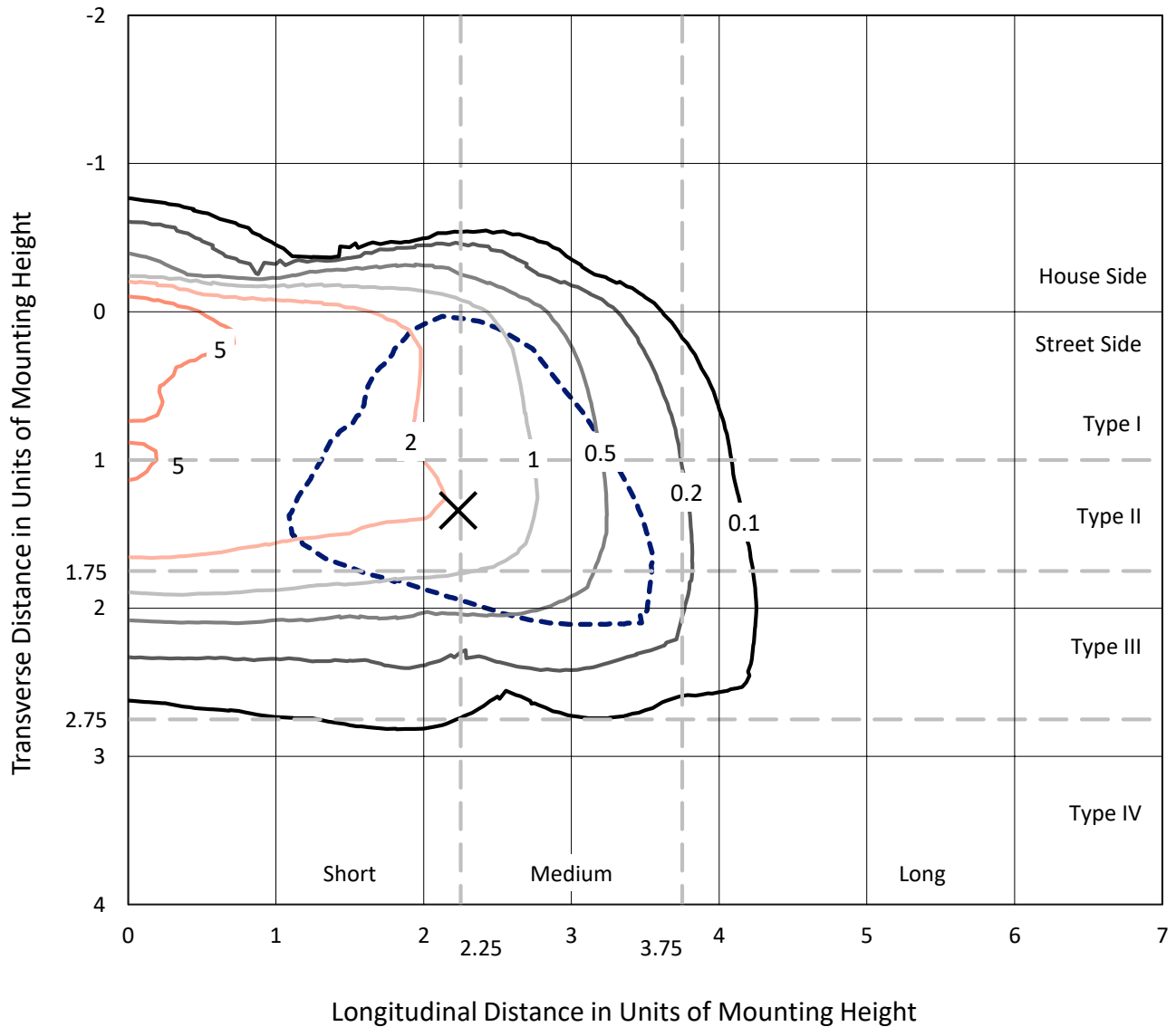
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

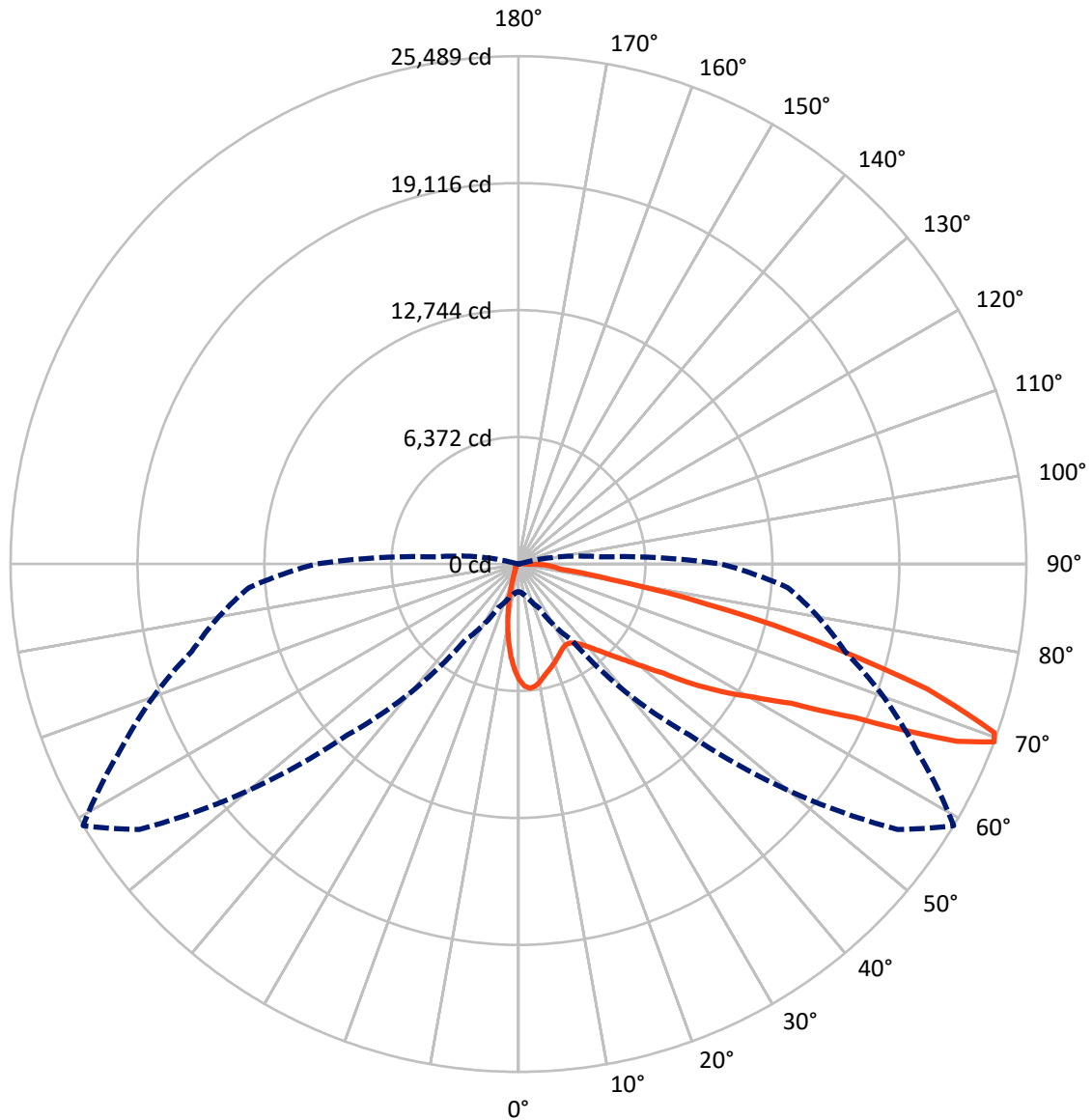


Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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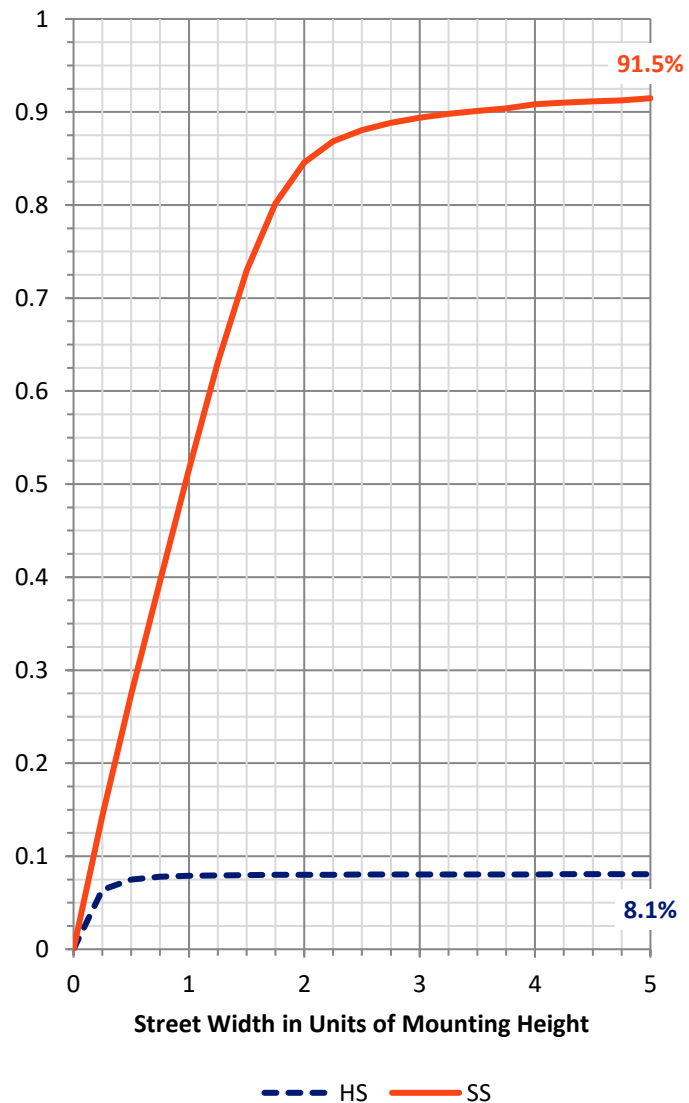
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1818.6	0.0	1818.6
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	20513.4	0.0	20513.4
	% Fixture	91.9	0.0	91.9
Total	Lumens	22332.0	0.0	22332.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.8	2.1
10°-20°	974.9	4.4
20°-30°	1311.9	5.9
30°-40°	1904.8	8.5
40°-50°	3171.5	14.2
50°-60°	4947.6	22.2
60°-70°	6122.2	27.4
70°-80°	3102.7	13.9
80°-90°	324.6	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	22332.0	100.0
0°-180°	22332.0	100.0



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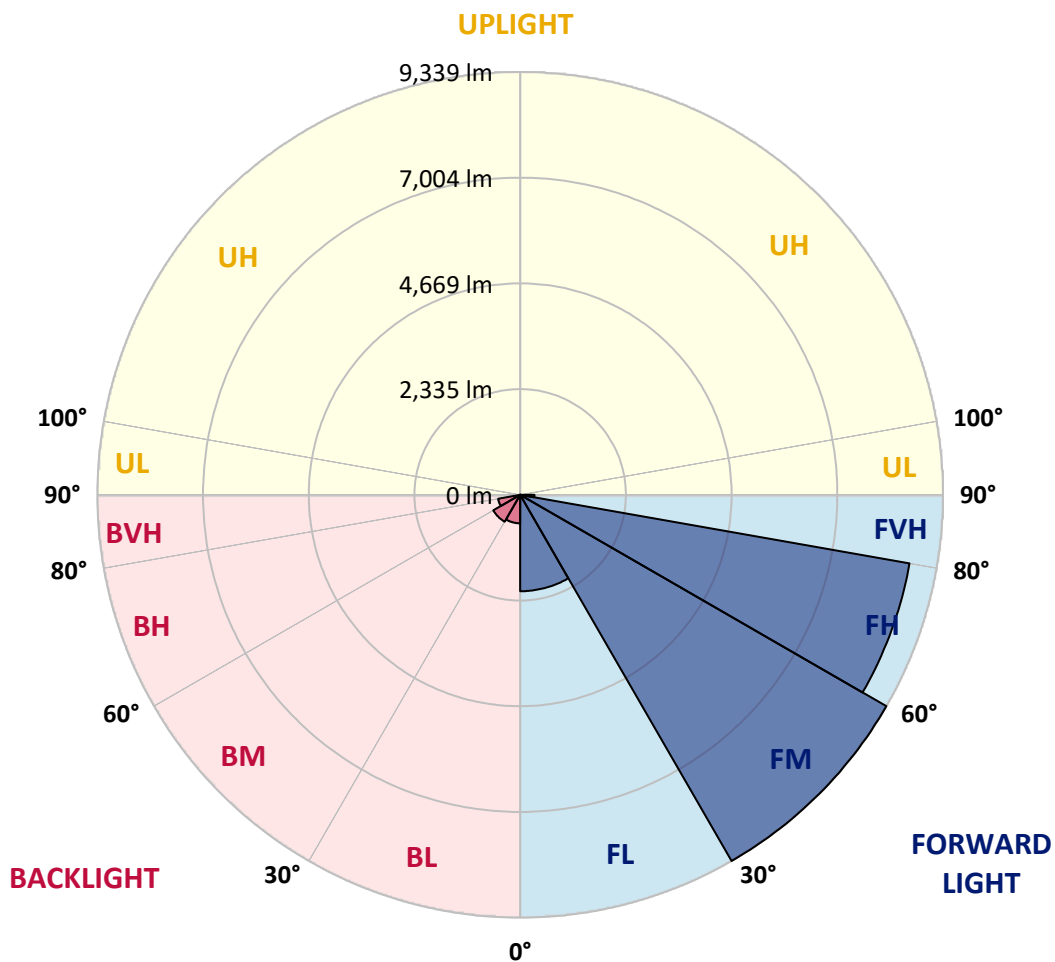
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2129.1	9.5			
FM	(30°-60°)	9338.6	41.8			
FH	(60°-80°)	8731.0	39.1			G4/12000
FVH	(80°-90°)	314.7	1.4			G3/500
BL	(0°-30°)	629.5	2.8	B2/1000		
BM	(30°-60°)	685.2	3.1	B1/1000		
BH	(60°-80°)	493.9	2.2	B1/500		G1/500
BVH	(80°-90°)	10.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5812.6	5812.6	5812.6	5812.6	5812.6	5812.6	5812.6	5812.6	5812.6	5812.6	5812.6
2.5°	6370.8	6368.5	6340.6	6328.0	6305.0	6257.3	6182.7	6143.7	6080.6	5970.5	5822.9
5°	6312.7	6343.3	6359.3	6360.9	6377.3	6359.3	6292.4	6259.9	6172.8	5995.7	5730.8
7.5°	5918.9	5930.0	5977.0	6017.1	6095.5	6170.1	6194.2	6180.0	6128.4	5939.2	5586.6
10°	5497.2	5508.3	5564.1	5616.8	5723.1	5837.8	5959.0	5984.7	6006.1	5858.1	5447.9
12.5°	5133.2	5144.7	5201.6	5270.8	5394.7	5536.2	5724.3	5766.0	5860.8	5781.3	5336.6
15°	4820.1	4825.0	4880.9	4966.5	5114.5	5296.1	5509.8	5576.7	5722.0	5727.0	5239.5
17.5°	4553.6	4566.2	4600.6	4682.4	4844.2	5069.0	5317.9	5413.8	5584.0	5681.5	5144.7
20°	4390.7	4403.3	4402.2	4447.7	4593.0	4832.7	5125.9	5240.6	5447.9	5634.8	5060.2
22.5°	4359.4	4359.4	4326.5	4320.0	4406.0	4606.7	4926.4	5066.3	5325.1	5614.6	5000.9
25°	4471.8	4466.4	4384.6	4317.7	4321.5	4441.2	4732.9	4899.6	5221.9	5628.3	4969.2
27.5°	4709.2	4702.7	4599.1	4471.8	4369.3	4368.1	4586.5	4765.8	5139.7	5694.1	4981.8
30°	5037.2	5034.9	4922.5	4762.0	4576.5	4406.0	4536.0	4698.9	5086.6	5812.6	5010.9
32.5°	5395.9	5392.0	5307.5	5138.5	4903.4	4576.5	4589.1	4725.6	5101.8	5970.5	5081.6
35°	5776.3	5769.8	5733.1	5585.5	5326.7	4890.8	4763.5	4869.4	5197.8	6206.8	5220.4
37.5°	6187.7	6194.2	6220.6	6079.1	5807.6	5331.6	5055.2	5127.1	5390.9	6527.6	5446.3
40°	6795.2	6794.0	6802.8	6617.0	6355.9	5870.7	5462.8	5485.7	5714.3	6953.1	5790.0
42.5°	7897.5	7820.6	7587.0	7208.1	6945.5	6487.0	5977.0	5952.9	6109.7	7479.6	6271.0
45°	9379.0	9214.6	8608.6	7882.6	7546.5	7181.7	6609.4	6532.5	6632.3	8112.3	6864.8
47.5°	10652.9	10482.4	9625.2	8584.5	8184.2	7840.9	7350.7	7211.9	7244.8	8820.8	7617.2
50°	11086.1	11002.8	10254.2	9195.9	8801.7	8670.5	8211.0	8041.6	7995.0	9640.1	8489.7
52.5°	10935.9	10929.7	10430.8	9592.3	9367.5	9529.3	9293.0	9097.2	8925.6	10504.2	9377.5
55°	10694.6	10726.3	10502.7	9939.5	9931.9	10313.4	10773.0	10610.1	10112.7	11442.4	10142.9
57.5°	10029.3	10164.3	10462.5	10596.3	10906.8	11297.2	12005.6	12101.6	11513.2	12160.9	10778.0
60°	8137.6	8434.3	9409.2	10690.8	12163.5	13135.8	13493.3	13575.1	12662.1	12758.1	11635.5
62.5°	5776.3	6079.1	7315.6	9483.8	12182.3	15551.4	15709.3	15387.4	13927.6	13643.5	13114.4
65°	3065.9	3299.9	4310.0	6845.7	10562.3	16112.3	19585.0	18625.3	16160.1	15384.7	15024.9
67.5°	1568.3	1639.1	2040.9	3350.4	7261.3	14311.5	23058.9	23734.4	20007.8	17112.4	14932.8
69°	1387.9	1429.5	1696.0	2422.1	4649.5	12121.9	23228.2	25488.6	22022.4	16968.3	13570.1
70°	1343.5	1380.2	1622.6	2192.3	3634.5	10165.5	22580.2	25334.5	22537.4	16420.4	12552.4
72.5°	1140.5	1171.8	1444.8	1937.3	2953.9	5046.0	18342.4	21468.0	20223.9	13678.7	9085.8
75°	762.8	866.4	1386.7	1816.1	2747.8	2866.7	12092.8	15513.5	14411.3	9226.1	4732.9
77.5°	183.1	196.9	391.5	1444.8	2513.1	2523.0	6219.4	9644.0	7866.1	3288.4	1118.7
80°	98.6	94.8	109.7	286.7	2339.9	2367.8	2799.8	4681.3	2808.6	545.6	368.6
82.5°	69.6	65.8	70.7	120.1	736.4	2156.7	2025.6	2118.9	1164.2	209.5	165.6
85°	25.2	24.1	39.0	108.6	230.9	1239.9	2081.0	1747.6	943.2	96.0	121.2
87.5°	8.8	7.6	15.3	59.3	70.7	528.0	1284.3	1321.0	371.2	58.1	57.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5812.6	5812.6	5812.6	5812.6	5812.6	5812.6	5812.6	5812.6	5812.6	5812.6	5812.6
2.5°	5761.0	5682.6	5538.9	5390.9	5254.4	5090.4	5008.2	4927.5	4893.5	4880.9	4821.6
5°	5594.3	5461.6	5156.1	4849.1	4566.2	4265.7	4067.6	3908.6	3814.9	3769.4	3697.5
7.5°	5380.9	5163.8	4700.0	4226.7	3785.9	3351.5	3029.6	2781.9	2611.3	2529.5	2455.0
10°	5173.7	4884.7	4225.5	3580.2	2981.4	2405.6	1961.0	1639.1	1433.4	1338.5	1278.1
12.5°	4988.3	4613.2	3767.1	2950.1	2198.4	1524.4	1072.1	815.9	688.2	643.8	622.4
15°	4822.7	4363.2	3333.9	2351.3	1488.8	871.3	586.1	498.9	478.7	478.7	476.0
17.5°	4666.0	4118.1	2915.7	1789.3	934.4	533.0	445.8	434.3	434.3	439.3	439.3
20°	4515.7	3884.5	2511.5	1284.3	588.4	422.9	403.0	400.3	403.0	409.1	409.1
22.5°	4386.9	3672.3	2134.2	881.3	437.0	381.2	371.2	367.4	368.6	372.4	375.1
25°	4290.9	3493.0	1778.2	597.2	376.2	347.2	336.1	329.6	324.6	324.6	326.9
27.5°	4230.5	3341.6	1433.4	434.3	338.4	315.8	297.8	287.9	276.4	270.3	272.6
30°	4186.2	3197.4	1109.9	354.8	303.2	280.2	257.7	241.3	224.8	217.2	219.8
32.5°	4169.7	3081.2	829.7	313.1	271.5	246.2	218.3	196.9	179.3	172.8	174.3
35°	4214.1	2989.1	607.5	282.9	246.2	214.5	183.1	159.1	145.3	141.5	142.6
37.5°	4330.3	2939.8	454.6	257.7	223.7	188.1	152.9	130.0	121.2	121.2	122.3
40°	4549.8	2938.6	365.1	240.1	203.4	162.9	126.2	109.7	104.8	107.4	108.6
42.5°	4870.5	3005.5	318.1	223.7	185.8	138.8	104.8	93.3	92.1	94.8	96.0
45°	5308.7	3127.9	292.9	209.5	166.7	116.2	88.3	80.7	80.7	84.5	86.0
47.5°	5845.5	3307.2	271.5	195.8	147.6	97.1	75.7	70.7	71.9	75.7	76.8
50°	6492.0	3533.5	250.0	180.5	133.8	80.7	65.8	61.9	63.1	68.1	69.6
52.5°	7228.4	3837.9	232.5	166.7	116.2	66.9	55.4	53.1	55.4	60.8	61.9
55°	7859.6	4110.5	211.0	155.2	93.3	55.4	45.5	45.5	48.2	54.3	55.4
57.5°	8467.1	4395.7	191.9	133.8	73.4	44.4	37.9	39.0	42.8	49.3	50.5
60°	9358.7	4879.3	169.4	112.4	55.4	35.2	31.7	32.9	37.9	44.4	45.5
62.5°	10872.8	5615.7	146.4	93.3	42.8	27.9	25.2	27.9	34.0	41.7	42.8
65°	12239.2	5915.1	120.1	78.4	32.9	21.4	21.4	25.2	32.9	40.5	41.7
67.5°	11477.6	4979.1	93.3	61.9	25.2	16.4	17.6	24.1	31.7	40.5	41.7
69°	10150.5	4071.5	79.5	49.3	21.4	15.3	16.4	24.1	31.7	39.0	40.5
70°	9116.3	3437.6	70.7	41.7	19.1	15.3	16.4	22.6	31.7	39.0	40.5
72.5°	6105.9	1856.2	57.0	30.2	17.6	13.8	13.8	22.6	30.2	37.9	39.0
75°	2623.9	512.7	45.5	21.4	15.3	12.6	12.6	21.4	29.1	36.7	39.0
77.5°	479.8	130.0	36.7	19.1	15.3	12.6	11.5	20.3	27.9	35.2	36.7
80°	190.8	64.2	29.1	16.4	13.8	11.5	9.9	19.1	26.4	34.0	35.2
82.5°	115.1	36.7	24.1	15.3	13.8	9.9	8.8	16.4	25.2	32.9	34.0
85°	93.3	25.2	19.1	15.3	12.6	9.9	7.6	15.3	22.6	31.7	32.9
87.5°	45.5	17.6	17.6	13.8	12.6	9.9	7.6	13.8	21.4	30.2	31.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)